

ABSTRACT

A rotating instrumented suspension stop for measuring vertical forces

The invention concerns a suspension stop for a motor vehicle wheel of the type comprising a fixed member intended to be fixed to the chassis (2) of the vehicle and a rotating member intended to be fixed to the suspension spring (4) so as to be rotationally moved under the effect of the forces exerted by the said spring, the said stop comprising a device for measuring the vertical forces applied to the vehicle wheel, the said device comprising a pulse-generating coder (11) which is fixed to one of the members, a sensor (12) fixed to the other member which is able to detect these pulses so as to determine the angular position of the rotating member with respect to the fixed member, and a calculation means able, from this position, to calculate the corresponding vertical force applied.

The invention also concerns a method of measuring the vertical forces applied to a wheel associated with the chassis (2) of a vehicle by means of such a stop.

Figure 1.